

APPENDIX C

2018 OZONE ASSESSMENT ACRONYM DICTIONARY

A1	baseline (or most likely) halocarbon scenario of the Ozone Assessment
A1-2006	baseline (or most likely) halocarbon scenario of the 2006 Ozone Assessment
A1-2010	baseline (or most likely) halocarbon scenario of the 2010 Ozone Assessment
A1B	scenario of the IPCC Special Report on Emissions Scenarios (SRES)
A5	Article 5 countries of the Montreal Protocol
AGAGE	Advanced Global Atmospheric Gases Experiment
AAO	Antarctic oscillation
AC	air conditioning
ACC	Antarctic Circumpolar Current
ACCMIP	Atmospheric Chemistry and Climate Model Intercomparison Project
ACE-FTS	Fourier Transform Spectrometer instrument on the Atmospheric Chemistry Experiment satellite
AGAGE	Advanced Global Atmospheric Gases Experiment (atmospheric monitoring surface sites)
AGWP	absolute GWP, which is the radiative forcing integrated over a given time horizon, resulting from a pulse emission of the gas
AMIP	Atmospheric Model Intercomparison Project
AMSU	Advanced Microwave Sounding Unit (satellite-based instrument)
AO	Arctic oscillation
AoA	age of stratospheric air
AR5	IPCC Fifth Assessment Report
ASL	Amundsen Sea Low
ATAL	Asian Tropopause Aerosol Layer
ATLAS	a Lagrangian chemistry and transport model (CTM)
ATT	Cross-Calibrated Multi-Platform products
CCMVal	Chemistry-Climate Model Validation Activity (e.g. CCMVal-2 = Phase 2 of CCMVal)
CDM	Clean Development Mechanism of the Kyoto Protocol
CFCs	chlorofluorocarbons
CFSR	Climate Forecast System Reanalysis
CGAA	Cape Grim Air Archive (atmospheric monitoring surface sites)
CIMS	Chemical Ionization Mass Spectrometer instrument
CLAES	Cryogenic Limb Array Etalon Spectrometry (satellite-based instrument)
CLaMS	Chemical Lagrangian Model of the Stratosphere
CMEs	coronal mass ejections
CMIP	Climate Model Intercomparison Project (e.g. CMIP5 = Phase 5 of CMIP)
CONTRAST	Convective Transport of Active Species in the Tropics (aircraft-based field campaign)
CPT	cold point tropopause
CR-AVE	Costa Rica Aura Validation Experiment (aircraft-based field campaign)
CSIRO	Commonwealth Scientific and Industrial Research Organisation
CTM	chemistry transport model
CUE	Critical use exemption

DJF	December-January-February
DOAS	Differential Optical Absorption Spectroscopy instrument
DU	Dobson Units
ECMWF	European Centre for Medium-Range Weather Forecasts (forecast model)
ECS	equilibrium climate sensitivity
EDGAR	Emissions Database for Global Atmospheric Research
EESC	Equivalent Effective Stratospheric Chlorine
EHF	eddy heat flux
ENSO	El Niño–Southern Oscillation
ENVISAT	Environmental Satellite
EOFs	empirical orthogonal functions
EPA	Environmental Protection Agency
EPP	energetic particle precipitation
ERA	ECMWF Re-Analysis (a global atmospheric reanalysis data product)
EAR-40	ECMWF 40-year Re-Analysis
ERA-Interim	ECMWF Interim Re-Analysis
FPH	frost point hygrometer
FRF	fractional release factor
FTIR	Fourier transform infrared
GAW	Global Atmosphere Watch programme of WMO
GC-ECD	gas chromatography-electron capture detection instrument
GC-MS	gas chromatography-mass spectrometry instrument
GCM	general circulation model
GDP	gross domestic product
GeoMIP	Geoenineering Model Intercomparison Project
GEOSCCM	Goddard Earth Observing System Chemistry Climate Model
GHG	greenhouse gas
GOME	Global Ozone Monitoring Experiment spectrometer (satellite-based instrument)
GOMOS	Global Ozone Monitoring by Occultation of Stars (satellite-based instrument)
GOZCARDS	Global OZone Chemistry And Related trace gas Data records for the Stratosphere
GPS	global positioning system
GSG	GOME-SCIAMACHY-GOME-2 merged dataset
GtCO ₂ -eq	gigatonnes of carbon dioxide equivalent
GTO	the GOME-type Total Ozone column ozone product
GTP	global temperature potential
GWP	global warming potential
HALOE	HALogen Occultation Experiment (satellite-based instrument)
HF	hydrogen fluoride
HCFC	hydrochlorofluorocarbon
HCFO	hydrochlorofluoroolefin
HFC	hydrofluorocarbon
HFE	halogenated ether
HFO	hydrofluoroolefin
HIAPER	High-performance Instrumented Airborne Platform for Environmental Research
HIPPO	HIAPER Pole-to-Pole Observations (aircraft-based field campaign)

HTOC	Halon Technical Options Committee
IASI	Infrared Atmospheric Sounding Interferometer (satellite-based instrument)
IGAC	International Global Atmospheric Chemistry project
IHD	interhemispheric difference
ILT	independent linear trend
IPCC	Intergovernmental Panel on Climate Change
JJA	June-July-August
LCCP	Life Cycle Climate Performance
LIMS	Limb Infrared Monitor of the Stratosphere (satellite-based instrument)
LOTUS	Long-term Ozone Trends and Uncertainties in the Stratosphere (a SPARC activity)
LS	lower stratosphere
LZRH	level of zero radiative heating
MAC	mobile air conditioning
MAGICC6	Model for the Assessment of Greenhouse Gas Induced Climate Change
MAM	March-April-May
MBL	marine boundary layer
MERRA	Modern Era Retrospective-analysis for Research and Applications (e.g. MERRA-2 = version 2 of MERRA)
MIPAS	Michelson Interferometer for Passive Atmospheric Sounding
MIPAS-B	balloon-based Michelson Interferometer for Passive Atmospheric Sounding
MLF	Montreal Protocol's Multilateral Fund
MLR	multiple linear regression
MLS	Microwave Limb Sounder (satellite-based instrument)
MMM	multi-model mean
MOD	merged ozone dataset
MSU	Microwave Sounding Unit (satellite-based instrument)
MZM	monthly zonal mean
NAM	Northern Annular Mode
NAO	North Atlantic oscillation
NASA	National Aeronautics and Space Administration (United States)
NAT	nitric acid trihydrate
NCEP	National Centers for Environmental Prediction (NOAA; United States)
NCEP/CFSR	NCEP Climate Forecast System Reanalysis (data product)
NDACC	Network for the Detection of Atmospheric Composition Change
NDCs	Nationally Determined Contributions within the Paris Agreement within the UNFCCC
NH	Northern Hemisphere
NIES	National Institute for Environmental Studies (Japan)
NIK	not-in-kind
NOAA	National Oceanic and Atmospheric Administration (United States)
NRLSSI	Naval Research Laboratory Spectral Solar Irradiance model
OCS	carbonyl sulfide (also COS)
ODP	ozone depletion potential
ODS	ozone-depleting substance
OMD	ozone hole mass deficit

OMI	Ozone Monitoring Instrument (satellite-based instrument)
OMPS	Ozone Mapping Profiler Suite (satellite-based instrument)
OPCs	optical particle counters
OSIRIS	Optical Spectrograph and InfraRed Imaging System (satellite-based instrument)
PCE	perchloroethylene, also known as tetrachloroethylene
PCO	partial column ozone
PFC	perfluorocarbon
PG	product gas
PGI	product gas injection
Pre-AVE	Pre- Aura Validation Experiment (field campaign)
PSC	polar stratospheric cloud
PWLT	piecewise linear trend
PWT	piecewise trend
QBO	Quasi-Biennial Oscillation
QPS	quarantine and pre-shipment
RCP	Representative Concentration Pathway (used by IPCC)
RF	radiative forcing
S-RIP	WCRP SPARC Reanalysis Intercomparison Project
SABER	Sounding of the Atmosphere using Broadband Emission Radiometry (satellite-based instrument)
SAGE	Stratospheric Aerosol and Gas Experiment (satellite-based instrument)
SAM	southern annular mode
SAP	UNEP Scientific Assessment Panel to the Parties of the Montreal Protocol
SATIRE-S	Spectral and Total Irradiance Reconstruction—Satellite era model
SBUV / SBUV MOD /	
SBUV COH	Solar Backscatter Ultraviolet (satellite-based instrument) / Merged Ozone Data (MOD) product / SBUV Cohesive dataset
SCIAMACHY	SCanning Imaging Absorption spectroMeter for Atmospheric CHartographY (satellite-based instrument)
SCISAT	SCience SATellite
SG	source gas
SGI	source gas injection
SH	Southern Hemisphere
SHADOZ	Southern Hemisphere Additional Ozonesondes
SHIVA	Stratospheric ozone Halogen Impacts in a Varying Atmosphere (field experiment)
SLIMCAT	Single-Layer Isentropic Model of Chemistry and Transport
SLR	sea level rise
SNAP	Significant New Alternatives Policy
SON	September-October-November
SOR	solar ozone response
SORCE	Solar Radiation and Climate Experiment
SPARC	Stratospheric Processes And their Role in Climate (project of WCRP)
SPEs	solar proton events
SRES	Special Report on Emissions Scenarios (used by IPCC)
SSI	solar spectral irradiance
SSP	Shared Socioeconomic Pathway

SST	sea surface temperature
SSU	Stratospheric Sounding Unit (satellite-based instrument)
SSW	sudden stratospheric warming
STAR	The NOAA Center for Satellite Applications and Research
STE	stratosphere-troposphere exchange
STT	stratosphere-to-troposphere transport
Suomi NPP	Suomi National Polar-orbiting Partnership weather satellite
SWOOSH	Stratospheric Water and OzOne Satellite Homogenized (merged data record)
SWV	stratospheric water vapor
SZA	solar zenith angle
TC4	Tropical Composition, Cloud and Climate Coupling (aircraft-based field experiment)
TCE	trichloroethene, trichloroethylene
TCO	total column ozone
TEAP	UNEP Technology and Economic Assessment Panel to the Parties of the Montreal Protocol
TELIS	TEtrahertz and submillimeter LImb Sounder (satellite-based instrument)
TES	Tropospheric Emission Spectrometer
TFA	trifluoroacetic acid
TOAR	Tropospheric Ozone Assessment Report
TOMCAT	Toulouse Off-line Model of Chemistry and Transport
TOMS	Total Ozone Mapping Spectrometer (satellite-based instrument)
TP	tropopause pressure
TransCom-VSLS	A multi-model intercomparison of halogenated very short-lived substances
TSI	total solar irradiance
TTL	tropical tropopause layer
UARS	Upper Atmosphere Research Satellite
UCI	University of California Irvine
UEA	University of East Anglia
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change
US	upper stratosphere
UT	upper troposphere
UTLS	upper troposphere/lower stratosphere
UV	ultraviolet
VEI	Volcanic Explosivity Index
VSL SG	Very Short-Lived Source Gas
VSLS	very short-lived substance
WACCM	Whole Atmosphere Community Climate Model
WCRP	World Climate Research Programme
WMO	World Meteorological Organization
WOUDC	World Ozone and Ultraviolet Radiation Data Centre of WMO/GAW